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(KUS.002)

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LISTING OF THE CLAIMS:

Claims 6, 23-25, 28, 34, 38, and 39 are canceled without prejudice or disclaimer.

1-3. (Canceled).

4. (Previously presented) A disc player comprising:
a positioning unit for positioning a disc;
a clamp unit for performing a clamp operation on the disc positioned by said positioning unit; and
a drive unit that includes a pickup and a turntable, and rotates the disc clamped on the turntable by said clamp unit to take out information from the disc by said pickup,
wherein said positioning unit and said clamp unit are provided separately from each other and are movable substantially vertically to said drive unit,
wherein a step plate equipped to said positioning unit and a clamp plate equipped to said clamp unit are engaged with a cam groove of a cam plate movable in parallel to a drive plate equipped to said drive unit, and are movable vertically to said drive plate by movement of said cam plate, and
wherein fit members which are provided to said step plate and said clamp plate and engaged with said cam grooves of said cam plate comprise fit pawls that are integrally formed by bending and erecting.

5. (Previously presented) A disc player comprising:
a positioning unit for positioning a disc;

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a clamp unit for performing a clamp operation on the disc positioned by said positioning unit; and

a drive unit that includes a pickup and a turntable, and rotates the disc clamped on the turntable by said clamp unit to take out information from the disc by said pickup,

wherein said positioning unit and said clamp unit are provided separately from each other and are movable substantially vertically to said drive unit,

wherein a step plate equipped to said positioning unit and a clamp plate equipped to said clamp unit are engaged with a cam groove of a cam plate movable in parallel to a drive plate equipped to said drive unit, and are movable vertically to said drive plate by movement of said cam plate,

wherein said step plate and said clamp plate comprise fit pawls, and

wherein said fit pawls of said step plate and said clamp plate are integrally formed by bending and erecting in a forming process thereof.

6. (Canceled).

7. (Previously presented) A disc player comprising:

a positioning unit for positioning a disc;

a clamp unit for performing a clamp operation on the disc positioned by said positioning unit; and

a drive unit that includes a pickup and a turntable, and rotates the disc clamped on the turntable by said clamp unit to take out information from the disc by said pickup,

wherein said positioning unit and said clamp unit are provided separately from each other and are movable substantially vertically to said drive unit, and

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wherein said positioning unit includes a step plate, a G plate which is freely rotatably provided to said step plate and includes, at one end thereof, a disc stopper on which a disc can be supported, and a sensor arm including, at one end thereof, an arm rod that can be fitted to the disc, the fitting positions of the other ends of said G plate and said sensor arm being changeable in accordance with plural discs different in diameter such that the discs can be positioned.

8-9. (Canceled).

10. (Previously presented) A disc player comprising:

a positioning unit for positioning a disc;
a clamer unit for performing a clamp operation on the disc positioned by said positioning unit; and

a drive unit that includes a pickup and a turntable, and rotates the disc clamped on the turntable by said clamp unit to take out information from the disc by said pickup,

wherein said positioning unit and said clamer unit are provided separately from each other and are movable substantially vertically to said drive unit,

wherein the moving amounts of said positioning unit and said clamer unit include different values, and

wherein the moving amount of said positioning unit is set such that a vibration-isolation stroke can be kept, and the moving amount of said clamer unit is set such that the vibration-isolation stroke can be kept and the clearance between said clamer unit and said clamer ring for clamping said disc onto said turntable can be kept.

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11. (Previously presented) A disc player comprising:
- a positioning unit for positioning a disc;
- a clamper unit for performing a clamp operation on the disc positioned by said positioning unit; and
- a drive unit that includes a pickup and a turntable, and rotates the disc clamped on the turntable by said clamp unit to take out information from the disc by said pickup,
- wherein said positioning unit and said clamper unit are provided separately from each other and are movable substantially vertically to said drive unit,
- wherein a step plate equipped to said positioning unit and a clamp plate equipped to said clamper unit are engaged with a cam groove of a cam plate movable in parallel to a drive plate equipped to said drive unit, and are movable vertically to said drive plate by movement of said cam plate,
- wherein said step plate and said clamp plate are moved in synchronism with each other and vertically to said drive plate by the movement of said cam plate, and
- wherein fit members which are provided to said step plate and said clamp plate and engaged with said cam grooves of said cam plate comprise fit pawls that are integrally formed by bending and erecting.

12. (Previously presented) A disc player comprising:
- a positioning unit for positioning a disc;
- a clamper unit for performing a clamp operation on the disc positioned by said positioning unit; and
- a drive unit that includes a pickup and a turntable, and rotates the disc clamped on the turntable by said clamp unit to take out information from the disc by said pickup,

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wherein said positioning unit and said clamper unit are provided separately from each other and are movable substantially vertically to said drive unit,

wherein a step plate equipped to said positioning unit and a clamp plate equipped to said clamper unit are engaged with a cam groove of a cam plate movable in parallel to a drive plate equipped to said drive unit, and are movable vertically to said drive plate by movement of said cam plate,

wherein said step plate and said clamp plate are moved in synchronism with each other and vertically to said drive plate by the movement of said cam plate,

wherein said step plate and said clamp plate comprise fit pawls, and

wherein said fit pawls of said step plate and said clamp plate are integrally formed by bending and erecting in a forming process thereof.

13. (Previously presented) The disc player as claimed in claim 4, wherein said fit pawls of said step plate and said clamp plate are integrally formed by bending and erecting in a forming process thereof.

14. (Previously presented) A disc player comprising:

a positioning unit for positioning a disc;

a clamper unit for performing a clamp operation on the disc positioned by said positioning unit; and

a drive unit that includes a pickup and a turntable, and rotates the disc clamped on the turntable by said clamp unit to take out information from the disc by said pickup,

wherein said positioning unit and said clamper unit are provided separately from each other and are movable substantially vertically to said drive unit,

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wherein a step plate equipped to said positioning unit and a clamp plate equipped to said clamper unit are engaged with a cam groove of a cam plate movable in parallel to a drive plate equipped to said drive unit, and are movable vertically to said drive plate by movement of said cam plate, and

wherein said positioning unit is designed to position plural kinds of discs including different sizes.

15. (Previously presented) A disc player comprising:

a positioning unit for positioning a disc;
a clamper unit for performing a clamp operation on the disc positioned by said positioning unit; and
a drive unit that includes a pickup and a turntable, and rotates the disc clamped on the turntable by said clamp unit to take out information from the disc by said pickup,
wherein said positioning unit and said clamper unit are provided separately from each other and are movable substantially vertically to said drive unit,

wherein a step plate equipped to said positioning unit and a clamp plate equipped to said clamper unit are engaged with a cam groove of a cam plate movable in parallel to a drive plate equipped to said drive unit, and are movable vertically to said drive plate by movement of said cam plate,

wherein said step plate and said clamp plate are moved in synchronism with each other and vertically to said drive plate by the movement of said cam plate, and

wherein said positioning unit is designed to position plural kinds of discs including different sizes.

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16. (Previously presented) A disc player comprising:
- a positioning unit for positioning a disc;
- a clamper unit for performing a clamp operation on the disc positioned by said positioning unit; and
- a drive unit that includes a pickup and a turntable, and rotates the disc clamped on the turntable by said clamp unit to take out information from the disc by said pickup,
- wherein said positioning unit and said clamper unit are provided separately from each other and are movable substantially vertically to said drive unit,
- wherein a step plate equipped to said positioning unit and a clamp plate equipped to said clamper unit are engaged with a cam groove of a cam plate movable in parallel to a drive plate equipped to said drive unit, and are movable vertically to said drive plate by movement of said cam plate, and
- wherein said positioning unit includes a step plate, a G plate which is freely rotatably provided to said step plate and includes, at one end thereof, a disc stopper on which a disc can be supported, and a sensor arm including, at one end thereof, an arm rod that can be fitted to the disc, the fitting positions of the other ends of said G plate and said sensor arm being changeable in accordance with plural discs different in diameter such that the discs can be positioned.

17. (Previously presented) A disc player comprising:
- a positioning unit for positioning a disc;
- a clamper unit for performing a clamp operation on the disc positioned by said positioning unit; and

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a drive unit that includes a pickup and a turntable, and rotates the disc clamped on the turntable by said clamp unit to take out information from the disc by said pickup,

wherein said positioning unit and said clamper unit are provided separately from each other and are movable substantially vertically to said drive unit,

wherein a step plate equipped to said positioning unit and a clamp plate equipped to said clamper unit are engaged with a cam groove of a cam plate movable in parallel to a drive plate equipped to said drive unit, and are movable vertically to said drive plate by movement of said cam plate,

wherein said step plate and said clamp plate are moved in synchronism with each other and vertically to said drive plate by the movement of said cam plate, and

wherein said positioning unit includes a step plate, a G plate which is freely rotatably provided to said step plate and includes, at one end thereof, a disc stopper on which a disc can be supported, and a sensor arm including, at one end thereof, an arm rod that can be fitted to the disc, the fitting positions of the other ends of said G plate and said sensor arm being changeable in accordance with plural discs different in diameter such that the discs can be positioned.

18-19. (Canceled).

20. (Previously presented) A disc player comprising:

a positioning unit for positioning a disc;

a clamper unit for performing a clamp operation on the disc positioned by said positioning unit; and

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a drive unit that includes a pickup and a turntable, and rotates the disc clamped on the turntable by said clamp unit to take out information from the disc by said pickup,

wherein said positioning unit and said clamper unit are provided separately from each other and are movable substantially vertically to said drive unit,

wherein the moving amounts of said positioning unit and said clamper unit include different values,

wherein the moving amount of said clamper unit includes a value larger than that of said positioning unit, and

wherein the moving amount of said positioning unit is set such that a vibration-isolation stroke can be kept, and the moving amount of said clamper unit is set such that the vibration-isolation stroke can be kept and the clearance between said clamper unit and said clamper ring for clamping said disc onto said turntable can be kept.

21-25. (Canceled).

26. (Currently amended) A disc player comprising:
a positioning unit for positioning a disc;
a clamper unit for performing a clamp operation on the disc positioned by said positioning unit; and
a drive unit that includes a pickup and a turntable, and rotates the disc clamped on the turntable by said clamp unit to take out information from the disc by said pickup,
wherein said positioning unit and said clamper unit are provided separately from each other and are movable substantially vertically to said drive unit.

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wherein said positioning unit positions said disc in a direction parallel to said drive unit, and

wherein said disc comprises one of a plurality of discs comprising different diameters,

wherein said positioning unit is operable to position said plurality of discs in a direction parallel to said drive unit based on said different diameters of said plurality of discs.

The disc player as claimed in claim 25,

wherein said positioning unit comprises:

a step plate,

a plate which is freely rotatably provided to said step plate,

wherein said plate includes, at one end thereof, a disc stopper on which a disc can be supported; and

a sensor arm including, at one end thereof, an arm rod that can be fitted to the disc, wherein the fitting positions of other ends of said plate and said sensor arm are changeable in accordance with said plurality of discs comprising different diameters such that any one of said plurality of discs including different diameters can be positioned in said direction parallel to said drive unit for rotating by said drive unit.

27-39. (Canceled).